

REMARKS

The application includes claims 1-20. The Examiner rejects claims 2 and 15 under 35 U.S.C. § 112. The Examiner rejects claims 1-4, 6-12, and 14-20 under 35 U.S.C. §103(a) as being unpatentable over Dynarski et al. (U.S. Patent 6,466,571). The Examiner rejects claims 5 and 13 under 35 U.S.C. §103(a) as being unpatentable over Dynarski in view of *Apply Personal Mobility in PCS Environment for Universal Personal Communications* by Ling-Sheng Chen ("Chen").

The applicants amend claims 1-2, 9, and 15-16. The application remains with claims 1-20.

The applicants add no new matter and request reconsideration.

Claim Rejections - 35 U.S.C. §112

The applicants amend claims 2 and 15 to provide adequate antecedent basis and obviate the Examiner's rejection.

Claim Rejections - 35 U.S.C. §103

Claim 1 recites *an access point directly connected to the wired computer LAN....* Claim 9 recites *an access means directly connected to the wired computer LAN....* Claim 16 recites *generating a first authentication message ... about an access point directly connected to a wired LAN.* A LAN is a computer network that spans a relatively small geographic area, the most common being an Ethernet. Most LANs are confined to a single building or a group of buildings. One LAN can be connected to other LANs over any distance via telephone lines and radio waves. A system of LANs connected in this way is termed a wide area network (WAN).

The Examiner alleges Dynarski discloses "a secure LAN." The applicants agree that Dynarski discloses Ethernet 1 (numeral 26), Ethernet 2 (numeral 12) and Ethernet 3 and that each of Ethernets 1-3 is an "IP local area network." See e.g., column 4, lines 58-60. The "communications system" shown in Figure 1A is, however, not a LAN itself but rather comprises a plurality of IP local area networks, e.g., 12 or 26, and many other components including a WAN 20.

The Examiner alleges the recited access point is disclosed by "the system illustrated by element 40 of Figure 1A, and col. 6, lines 5-30." Office Action, page 3. But Dynarski

describes element 40 as a “wireless network.” Dynarski, column 6, lines 8-12. While Dynarski discloses that the wireless network 40 may contain additional conventional equipment, it does not disclose an access point *directly connected to the wired LAN* as required by claims 1, 9, and 16. That is, Dynarski’s wireless network 40 is not directly connected to any of Ethernets 1, 2, and 3 as is evidently shown in Figure 1A.

Claim 1 recites *an access point ... to authenticate the wireless device*. Claim 9 recites *an access means ... to authenticate the wireless means*. Claim 16 recites *transmitting the second authentication message from the wireless device to the access point and validating the wireless device by analyzing the second authentication without going through the firewall means*.

Nothing in Dynarski discloses the wireless network 40 authenticating the wireless device.

Nothing in Dynarski discloses the transmitting the second authentication message from the wireless device to the access point, where the second authentication message includes validating information about the wireless device and a wireless device operator.

Claim 1 recites *an authentication server coupled to the wired computer LAN to provide the operator with access to the wired LAN after authenticating the access point, the wireless device, and the operator without going through the firewall responsive to a request from the wireless device and its operator to access the wired LAN*. Claims 9 and 16 recites a similar limitation. The Examiner alleges Dynarski’s authentication server 28 discloses the recited same-named authentication server. But the server 28 shares only a common name with the recited authentication server. The server 28 provides “accounting, authorization, and authentication functions for a plurality of mobile users 14 and 16.” Nowhere does Dynarski disclose that its server 28 authenticates *the access point, the wireless device, and the operator*. The server 28 is tasked with authenticating whether a wireless device 14 “is authorized to receive the IP packet” received from a remote terminal 10 or 24 by, e.g., mapping an IP address found in the packet to a table “uniquely identifying the (wireless) device 14 or 16 that is being ‘called’ by the remote terminal.” Dynarski, column 5, lines 36-46. That is, the server 28 receives access packets from remote terminals 10 or 24 connected to remote and apparently distinct Ethernets 2 and 3, respectively, and determines whether the wireless devices specified to receive those access packets are authorized to do so.

If Dynarski discloses the access point as the wireless network 40 as we discuss earlier, then the server 28 must then necessarily authenticate the wireless network 40 if it is to disclose the recited authentication server. But nothing in Dynarski suggests that the server 28

is authenticating the wireless network 40. Dynarski's server 28 identifies whether the wireless device specified in an access packet sent by a remote terminal is authorized to receive the packet.

And nothing in Dynarski suggests authenticating *the operator... responsive to a request from the wireless device and its operator to access the wired LAN*. Dynarski deals exclusively with a remote terminal 10 or 24 sending an IP packet including an IP address identifying a wireless device 14. That is, the remote terminal 10 or 24 "calls" the wireless device 14. Dynarski's system pages, routes, and establishes a virtual communication channel between the remote terminal 10 or 24 and the wireless device 14 at the request of the remote terminal. Dynarski, column 5, lines 41-46. At best, Dynarski discloses authenticating "the user operating the device 14 using the Destination IP address in Access-Accept packet received from the remote terminal 10." Dynarski, column 7, lines 13-16.

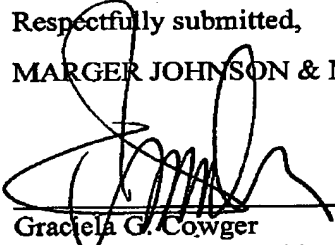
As pointed out by the Examiner, Dynarski discloses the server 30 "initiates a connection with the IP network 12/20/26, by virtue of an established PPP connection..." when the wireless device 14 responds to the page. Dynarski, column 7, lines 63-67. That is, never does the wireless device 14 gain access to the wired LAN directly connecting the access point and the authentication server.

Conclusion

The applicants request reconsideration and allowance of all claims as amended. The applicants encourage the Examiner to telephone the undersigned at (503) 222-3613 if it appears that an interview would be helpful in advancing the case.

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